Sophia Ngo

EDUCATION

Georgia Institute of Technology

B.S. in Computer Science — *Atlanta, GA* | May 2017

- GPA: 3.00/4.00; Faculty Honors (Fall 2014, Spring 2015) and Dean's List (Fall 2014, Spring 2015)
- Research Focus Areas: Fraud Detection, Robotics (SLAM, ROS), Data Mining

EXPERIENCE

Twitter

Software Engineering Intern — *San Francisco, CA* | May 2015 to Present

- Core contributor for a major ads.twitter.com product (pending release). Member of a small launch team of 3 engineers. Product currently used by some of the largest DSO advertisers
- Helped build Scala backend with multi-service architecture, added several components to FlightJS frontend
- Built Scalding data analysis pipeline running on Hadoop for aggregating key product revenue impact metrics
- Asynchronous map-reduce jobs that generate reference datasheets for advertisers. Running on production Aurora scheduler and Hadoop cluster. Worked closely with L10n team for automatic i18n of generated artifact
- Technologies used: Scala, Kafka, Scalding/Cascading (Hadoop), Storm, Scribe, Finagle, Thrift, FlightJS, MySQL, Aurora/Mesos

Georgia Institute of Technology

Undergraduate Research Assistant — *Atlanta, GA* | September 2014 to Present

- Research with Prof. Polo Chau, Shang-Tse Chen in detecting fake Yelp reviews and voting fraud through quasi-clique identification in massive undirected graphs (data mining, anomaly detection)
- IEEE Security & Privacy 2015 Presenter - Poster: "Spotting Suspicious Reviews via (Quasi-)clique Extraction"

@WalmartLabs (Walmart eCommerce)

Software Engineering Intern — *Sunnyvale, CA* | June 2014 to August 2014

- Created modular, declarative front-end layer in Angular and real-time service layer in Node for in-house Continuous Delivery platform (CDaaS)
- Key member of small team in global @Platform engineering group
- Technologies used: Node.js, Java, MongoDB, Angular.js, Elastic Search, AWS, Nginx, Jenkins, Nagios

Google

Student – CAPE S'10 and CAPE College S'12 — *Mountain View, CA* | Summers 2010, 2012

- Built Virtual Buddy, app that allows the blind to use Android by dictating actions to a virtual personal assistant
- CAPE (Computing and Programming Experience): Google student program for impactful product development

SELECTED TECHNICAL PROJECTS

https://github.com/parasj

- **Stayin' Alive** (iOS). Dash mounted smartphone detects when drivers are tired or drunk using facial feature tracking through the camera. (2014)
  Grand Prize at AT&T Connected Car Hackathon ($10k prize)
- **RoboNurse**. Fully autonomous robot that delivers prescriptions and supplies in hospitals. Mobile application on iOS allows nurses to control delivery and manage robot fleet. (2013)
- **Electrify** (iOS, Android). 60,000 downloads. Utility energy data analytics for consumers. (2011)
  International 3rd Place, AT&T Power Your Future 2011. Presented on-stage with CEO of Microsoft and AT&T

Honors

Apple Engineering Scholarship for Women Recipient

Women Grad Cohort Workshop participant

Grace Hopper Celebration Scholarship Recipient